

What is claimed is:

1. A composition comprising a polyamide/polyolefin blends containing carbon nanotubes.
- 5 2. The composition according to Claim 1, in which the carbon nanotubes are tubes or hollow fibres having a diameter of about 5 to 20 nanometres (nm) and a length of 100 to 1000 times the diameter.
- 10 3. The composition according to Claim 1, in which the proportion of nanotubes by weight is between 0.1 and 10% per 99.9 to 90% of the polyamide/polyolefin blend, respectively.
- 15 4. The composition according to Claim 3, in which the proportion of nanotubes by weight is between 1 and 7% per 99 to 93% of the polyamide/polyolefin blend, respectively.
- 20 5. The composition according Claim 4, in which the proportion of nanotubes by weight is between 2 and 6% per 98 to 94% of the polyamide/polyolefin blend, respectively.
- 25 6. Structures comprising at least one layer formed from a blend according to Claim 1 and optionally at least one layer of another material.
- 30 7. The structure of Claim 6 wherein said structure is selected from the group consisting of bottles, tanks, containers, hoses, pipes and vessels.
- 35 8. A multilayer tube comprising, in its radial direction from the outside inwards:
 - an outer layer (1) formed from a polyamide chosen from PA-11 and PA-12;
 - a layer (2) formed from a tie;

- an optional layer (3) formed from a saponified ethylene/vinyl acetate copolymer (EVOH);

- optionally, a tie layer (this does not exist if no layer (3) is present);

5 • an inner layer (4) formed from a polyamide/polyolefin blend having a polyamide matrix and containing carbon nanotubes;

with the layers being successive and adhering to one another in their respective areas of contact.

10

9. The tube according to Claim 8, in which the layer (4) is replaced with a layer (4a) and a layer (5), such that:

15 • the layer (4a) is formed from a polyamide (A1) or a polyamide/polyolefin blend having a polyamide matrix but does not contain carbon nanotubes;

20 • the layer (5) is placed on the inside of the tube and is formed from a polyamide/polyolefin blend having a polyamide matrix and contains carbon nanotubes, according to any one of Claims 1 to 5;

- an optional tie layer being placed between the layers (4a) and (5)